Building Applications with HBase

Setting up HBase

Download the tarball from http://hbase.apache.org We'll use standalone mode for this tutorial.

Once you have the tarball, unarchive the file in a location of your choice.

```
mkdir ~/strata
cp /my/location/hbase-0.94.1.tar.gz ~/strata
cd ~/strata
tar xvf hbase-0.94.1.tar.gz
```

After unarchiving, start HBase in standalone mode.

```
cd hbase-0.94.1
bin/start-hbase.sh
```

You can see the HBase status UI on http://localhost:60010

Using the shell

Start the shell using the hbase command line tool.

```
bin/hbase shell
```

The 'help' command will give you a list of shell commands. To see the help for a specific command, pass the name of the command as an argument to the help command.

```
Example:
help 'create'

Create table:
create 'users , 'info'

List tables:
list

Describe table:
describe 'users'
```

```
Put arow:
put 'users' , 'ul', 'info:name' , 'Mr. Rogers'

Get arow:
get 'users' , 'ul'

Put more:
put 'users' , 'ul' , 'info:email' , 'mail@rogers.com'
put 'users' , 'ul' , 'info:password' , 'foobar'

Get a row:
get 'users' , 'ul'

Scan table:
scan 'users'
```

Java API

Download twitbase source from https://github.com/hbaseinaction/twitbase

Sample code to play with:

```
Configuration conf = HBaseConfiguration.create();
HTable users table = new HTable(conf, "users");
for(int i=1; i<=10; i++) {
     Put p = new Put(Bytes.toBytes("user" + i));
     p.add(Bytes.toBytes("info"),
           Bytes.toBytes("name") ,
           Bytes.toBytes("User" + i + "'s name")
           );
     users_table.put(p);
}
Get g = new Get(Bytes.toBytes("user1"));
Result r = users table.get(g);
System.out.println("Name = " +
     Bytes.toString(r.qetValue(Bytes.toBytes("info"),
     Bytes.toBytes("name")));
Scan s = new Scan();
ResultScanner rs = users table.getScanner(s);
for(Result scan r : rs) {
     System.out.println(Bytes.toString(scan r.getValue
           (Bytes.toBytes("info"), Bytes.toBytes("name"))));
}
```